TAKSTAR®

User's Manual

用户手册

TS-6310

VHF频段无线麦克风系统

VHF Wireless Microphone System

TAKSTAR®

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GUANGDONG TAKSTAR ELECTRONIC CO., LTD.

Specification:

Mute Control: Noise Lock
Frequency Deviation: ±18kHz
Frequency Response: 80Hz-15kHz
Frequency Stability: ±0.005%
S/N Ratio: > 70dB
Total Harmonic Distortion: 0.5 % (at 1kHz)
Number of Channels: 2 Channels
Receiving Sensitivity:-80dBm
Operating Range: 50m in Open Area
Resonance Interference Rate: ≥50dB
False Image Interference Rate: ≥80dB
Receiver Power Supply: DC 12V/300mA
Transmitter Power Supply: 9V Battery
Transmit Power: + 10dBm
Carrier Frequency Band: VHF-H
Output Type: Separate and Mixed Output (auto-selecting)

Delivery Includes:

Receiver	1 pc
Handheld Microphone	2 pcs
Audio Output Cable	1 pc
Power Adaptor	1 pc
User's Manual	1 pc
Belt-Pack Transmitter	2 pcs (TS-6310A)
Tie-clip Microphone	2 pcs (TS-6310A)
Headworn Microphone	1 pc (TS-6310A)
9V batteries	2pcs

产品介绍:

传统无线麦克风因频率低等多种原因致使容易受到干扰，特别是来自CD/VCD/LD/电脑等数码设备散发出的大量高次谐波，为解决这一问题，我们设计了TS、WM系列专业级的无线麦克风，除采用了常用的提高频率，多级窄带高频及中频选频滤波、多重噪音控制方式之外，更设计了独特的干扰噪音静噪功能，将非本系统的干扰信号拒之门外。

本系列特殊设计的VHF频段无线麦克风系统适用于任何公众演讲及卡拉OK表演。这套系统有着长距离(50~100米)和高保真的音色，频率响应宽广(40~18000Hz)和极低的失真，可以让您随时随地放心地使用。

主要特性:

- 使用VHF-H频段，避免干扰频率.
- 采用多级窄带高频及中频选频滤波,充分消除干扰信号.
- 采用低电压设计,电池电压低到4V仍可工作.
- 采用特别ALC电路不用担心音量过大而失真.
- 手持麦克风具有低电指示电路,提示更换电池.
- 特设手持麦克风开关噪声冲击波消除电路.
- 全部采用石英振荡电路,具有极高的频率稳定性能.
- 采用音频压缩-扩展技术,提高了动态范围和信噪比
- 设有声反馈防啸叫功能,能有效减小反馈啸叫.
- 具有独立的输出和混合输出,可接调音台和卡拉OK放大器.
- 手持麦克风设计合理，坚固耐用

使用方法:

麦克风的操作

1.手持麦克风: 按逆时针方向旋开发射器尾管,装入9V层叠电池（注意电池极性不能接反），然后顺时针旋紧尾管.

领夹发射器:按发射器上所标示"OPEN"字样处, 打开电池盖，然后装入电池。

注意电池的正负极不能接反.

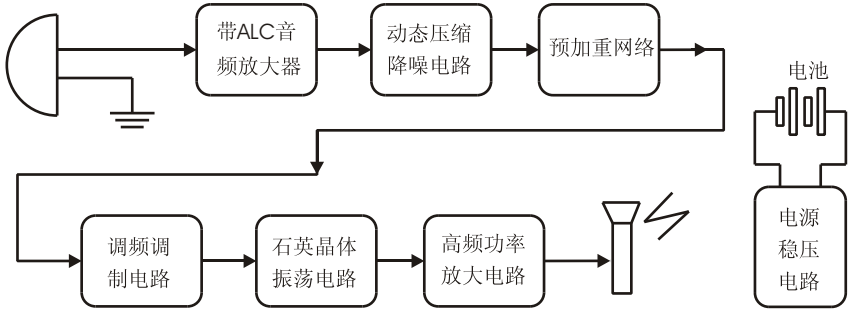
2. 将电源开关推至"ON", 如电源指示灯不亮, 应检查电池电压是否不足或电池极性是否接反.

3.将电源开关推至中间档时,手持麦克风将关闭拾音功能,抑制噪音通过接收机.

4. 将领夹麦克风或头戴麦克风的插头插入发射器的"MIC"插孔内.

5. 若长期不使用,请将麦克风内电池取出,以免电池漏液而损坏麦克风.

麦克风工作原理



Troubleshooting:

Phenomena	Cause
The receiver is returned on, but the indicator does not light.	Check if the adaptor is well connected, and if the socket is broken.
The “RF” indicator lights while speaking, but no output signal is available.	Check if the power switch is in the middle position, or the volume control is on the minimum position.
When the using distance gets shorter, the signal becomes unstable.	1. Put out the antenna. 2. Check if the batteries are running off and replace them with the fresh ones if needed. 3. Check if the receiver is put in inappropriate position, i.e. on the ground or at the corner of the wall or in a strong electromagnetic filed, please change its position.
Sound quality gets worse.	1. The battery of the microphone is running off, please replace it with fresh one. 2. Check if there is same frequency signal problem, do not use two units with same frequency at the same time in the same area. (The distance must be at least 100m between two units with same frequency.)

Remarks: If there are any other troubles or problems observed, please do not open and repair it by yourselves. Please, first contact our distributors or directly come back to us. We will try our best to provide you with professional and efficient service.

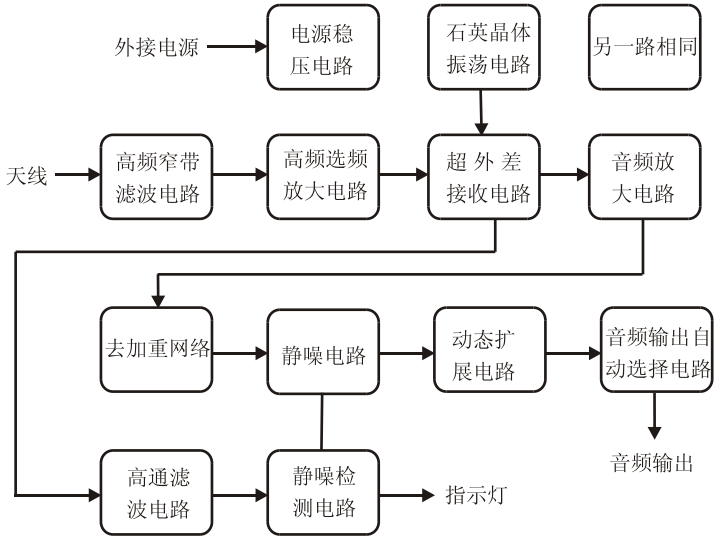
CAUTION:

1. The receiver should be more than 1m above the floor and more than 1m away from the walls.
2. For better effect, please do not put the microphone in the dead angle place while using.
3. Please be careful while operating the system, any impacts, plumps or misuse can cause malfunction.
4. Do not expose the system directly to sun and rain, and keep it away from magnetic filed.
5. Any change or modification on the construction of this device, which are not expressly approved by the party responsible for compliance, could cause a malfunction and void the user's authority to operate the equipment.
6. Do not disassemble the unit by yourself, as there may be high voltage inside.
7. Specifications are subject to change without prior notice.

接收机的操作

1. 将电源适配器插头插入供电插座,注意电压是否是交流220V/50~60Hz.
2. 打开电源开关,电源指示灯亮.
3. 拉出天线A和B,使之与机体成90度角.
4. 音频输出的连接:本接收机音频输出采用自动选择输出电路,如果需要混合输出,则只要用一条音频输出线与任何一个输出插座连接即可.如果需要独立输出,则需再连上另一音频输出线即可.
5. 当手持麦克风或领夹发射器开机后,接收机"RF"信号灯亮,接收机输出音量大小,可由音量控制旋钮调整.
6. 若长期不使用请拔出电源转换器.

接收机工作原理



注意事项:

1.接收机的安装离地面要高于一米,距墙面要大于一米.
2.主机使用时应避免放置到死角的地方以保持信号接收状况良好.
3.使用手持麦克风时,请勿抛.摔.扔.丢,以免造成严重损坏.
4.机体应避免直接日晒雨淋,尽量远离电磁场.
5.没有经过厂家授权同意,用户不得擅自对机体内部做任何的修改和变动. 修改或擅改系统内部配件可能导致机器不能正常工作,并可能使保修承诺作废.
6.请勿自行拆卸,内有可能伤及你身体的高压.
7.本公司保留对产品设计更改的权利，如有变更，恕不另行通知!

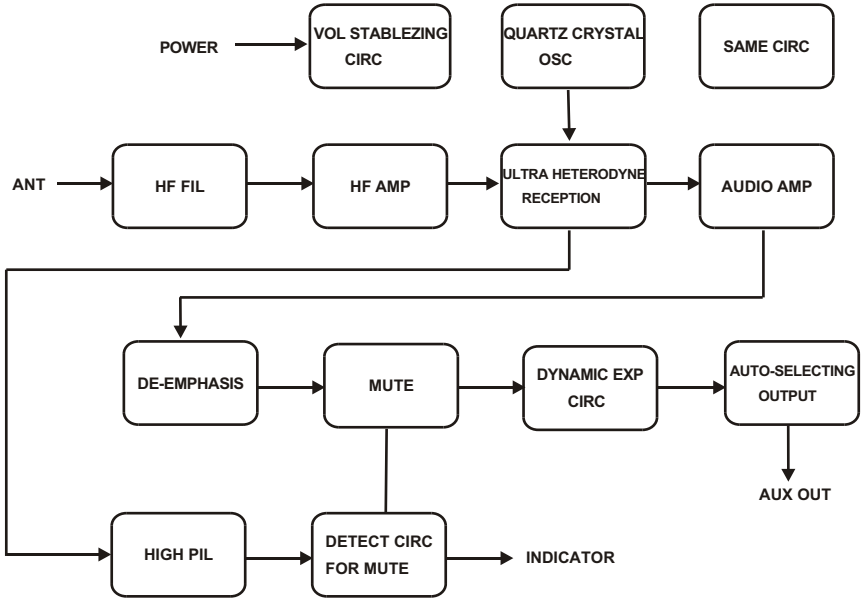
简单故障处理:

现 象	原 因
打开接收机电源开关,指示灯不亮	检查电源转接器是否插好,插座是否有电.
讲话时"RF"灯亮但系统完全无声输出	麦克风电源开关是否拨至中间档、音量旋钮是否调到最小.
使用距离变短,信号不稳定	接收机天线没拉出,麦克风电池即将用完,请更换.接收机放置位置不对,例如放在地上或墙角.周围有强烈的电磁场干扰,应远离电磁场.
音质变差	麦克风电池已经用完,请更换.周围有同频率之高频信号,切勿将两台同频率的机器同时同地使用(最小相隔100米)
若发生故障或本说明书未提及的问题切勿自行拆开修理,请及时与经销商或本公司联系,我们将竭诚为您服务.	

Receiver:

1. Plug the connector of the power adaptor into the socket of power Source, please make sure the power voltage is AC 220V/50~60Hz.
2. Turn on the power switch, the power indicator lights.
3. Pull out the antenna A & B and make them perpendicular to the unit.
4. 2 - Audio Output Connection (auto-selecting): If the mix output is needed, only use 1 audio output cable and connect it with any output socket. If independent output is required, please connect another cable.
5. The “RF” indicator of receiver will light when turning on the transmitter. Please swivel the volume knob to adjust the sound.
6. When not using the receiver for a long time, please disconnect it from the power adaptor.

Working Principle of Receiver:

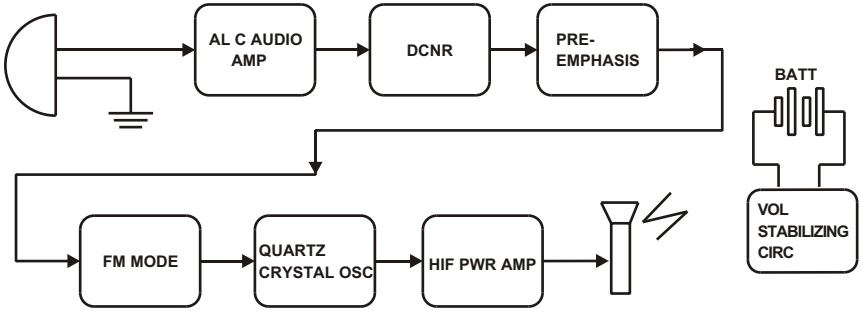


Operational Instructions:

Microphone:

1. Handheld Microphone: Rotate the battery cover anti-clockwise, and put a 9V battery into the battery compartment with proper polarities, then rotate the battery cover clockwise till it is tight enough.
   Belt-pack Transmitter: Open the battery cover by pressing the "OPEN" sign, then put in the batteries. (Caution: the battery must be in Correct Polarities
2. Push the microphone power switch to the "ON" position. If the power indicator doesn't light, please check if the battery is full enough or the battery polarities are correct.
3. If the mute function is needed, please push the switch to the middle position, then the microphone will be in mute state and the unit is still working.
4. Plug the tie-clip or headset microphone into the "MIC" socket of the belt pack transmitter.
5. When not using the microphone for a long time, please take out the batteries from the microphone base in order to avoid damaging the unit By chemical leakage from the battery.

Working Principle of Microphone:



技术参数:

静音控制: 锁杂讯
频偏: ±18kHz
频率响应:80Hz-15kHz
频率稳定度: ±0.005%
信噪比: >70dB
失真度: 0.5%(1kHz)
频道数: 两通道
接收灵敏度: -80dBm
使用距离: 空旷地带50米
谐波干扰比: ≥50dB
假像干扰比: ≥80dB
接收机供电: DC 12V/300mA
发射器供电: 9V 电池
发射功率: 10dBm
载波频段:VHF-H
输出方式：独立及混合自动选择

配置:

接收机1台
手持麦克风2支
音频过机线1条
交流转换器1个
用户手册1本
腰挂发射器2个（TS-6310A）
领夹麦克风2只（TS-6310A）
头戴麦克风1只（TS-6310A）
9V层叠电池2只

Introduction:

For many reasons, low frequency among others, traditional wireless microphone systems can be easily interfered, especially by such equipment as CD, VCD and LD. To solve this problem, Takstar designed the professional TS, WM series wireless microphones, which adopt a series of measures to improve its functions, advance frequency using multilevel high frequency and mid frequency narrowband filter, mulriple noise detect and control. They feature also the special functions of avoiding interference from the outside.

TS-6310 wireless microphone system is suitable for any public speeches and karaoke performances. It features long distance (50-100m), high fidelity tone quality and wide frequency response range (40-18000Hz) with low distortions, which will assure you a pleasant using everywhere at any moment.

Features:

Adopting VHF-H frequency band for obviating interference Frequency.

Using multilevel high frequency and mid frequency narrowband Filter for fully eliminating signal disturbing

Low-voltage power supply design keeps it working even at 4V.

Unique ALC circuitry for avoiding distortion from high volume

Low voltage indication available for handheld microphone

Special circuitry for eliminating noise shock wave from switch

Quartz crystal oscillator circuitry for extremely stable frequency

Adopting audio companding technique for reducing the noise and Increasing the dynamic range

Function of effectively reducing the howling

Independent unbalanced and mixed outputs for conveniently connecting sound mixer and Karaoke amplifier

Rugged and durable handheld microphone design